

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	§	
Hood, Charles et al	§	
	§	Group Art Unit: 2835
Serial No. 10/727,816	§	
	§	
Filed: December 4, 2003	§	
	§	Examiner: Hoffberg, Robert Joseph
For: METHOD AND APPARATUS FOR	§	
ATTACHING A PROCESSOR AND	§	
CORRESPONDING HEAT SINK TO	§	
A CIRCUIT BOARD	§	

AMENDMENT AND REQUEST FOR RECONSIDERATION UNDER 37 CFR 1.116

Mail Stop Amendment
Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The present paper is being submitted in response to the Final Office Action dated March 31, 2006, in the above-identified application.

INTRODUCTORY COMMENTS

Claims 1, 7, 13, 14, 20 and 21 are amended, Claims 6, 12, and 19 are cancelled, and Claims 1-5, 7-11, 13-18 and 20-21 remain in the application. Re-examination and reconsideration of the application, as amended, are requested.

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A processor loading apparatus comprising:
 - a board member;
 - a processor socket mounted on the board member;
 - a processor seated in the processor socket;
 - a frame member mounted on the board member;
 - a plurality of connector portions on the frame member; and
 - a curved resilient load member with a first end connected to one of the connector portions and a second end connected to another one of the connector portions, whereby the connection of the second end deforms the curved load member into a substantially parallel engagement with the processor and urges the processor into the processor socket; and
the resilient load member having an opening formed therein permitting the processor to extend through the opening into contact with the heat sink, whereby the resilient load member urges the processor into contact with the socket without applying a force to the heat sink.
2. (Original) The apparatus of claim 1 wherein the frame member surrounds the processor socket.
3. (Original) The apparatus of claim 1 further comprising:
 - a support member mounted on the board member adjacent to the frame member.
4. (Original) The apparatus of claim 1 wherein the first end of the resilient load member is pivotally connected to one of the connector portions and the second end is latched to another one of the connector portions.
5. (Original) The apparatus of claim 1 wherein the processor includes a thermal connection surface.

6. (Cancelled)
7. (Currently Amended) A heat sink mounting apparatus comprising:
- a board member;
 - a support member mounted on the board member;
 - a processor socket mounted on the board member;
 - a processor seated in the processor socket;
 - a frame member mounted on the board member;
 - a plurality of connector members on the frame member;
 - a curved resilient load member with a first end connected to one of the connector members and a second end connected to another one of the connector members, whereby the connection of the second end deforms the curved load member into a substantially parallel engagement with the processor and urges the processor into the processor socket; and
- a heat sink mounted on the frame and adjacent to the load member; and
the resilient load member having an opening formed therein permitting the processor to extend through the opening into contact with the heat sink, whereby the resilient load member urges the processor into contact with the socket without applying a force to the heat sink.
8. (Original) The apparatus of claim 7 wherein the frame member surrounds the processor socket.
9. (Original) The apparatus of claim 7 wherein the support member is mounted on an opposite side of the board from the frame member.
10. (Original) The apparatus of claim 7 wherein the first end of the resilient load member includes a pivotal connection and the second end includes a latched connection.
11. (Original) The apparatus of claim 7 wherein the processor includes a thermal connection surface.

12. (Cancelled)
13. (Original) The apparatus of claim 4211 wherein the heat sink engages the thermal connection surface.
14. (Currently Amended) An information handling system comprising:
- a board member;
 - a support member mounted on the board member;
 - a processor socket mounted on the board member and coupled to a mass storage device and a system memory;
 - a processor seated in the processor socket;
 - a frame member mounted on the board member;
 - a plurality of connector members on the frame member;
 - a curved resilient load member with a first end connected to one of the connector members and a second end connected to another one of the connector members, whereby the connection of the second end deforms curved the load member into a substantially parallel engagement with the processor and urges the processor into the processor socket; and
 - a heat sink connected to the frame member adjacent to the load member; and the resilient load member having an opening formed therein permitting the processor to extend through the opening into contact with the heat sink, whereby the resilient load member urges the processor into contact with the socket without applying a force to the heat sink.
15. (Original) The system of claim 14 wherein the frame member surrounds the processor socket.
16. (Original) The system of claim 14 wherein the support member is adjacent the frame member.
17. (Original) The system of claim 14 wherein the first end of the resilient load member includes a pivotal connection and the second end includes a latched connection.

18. (Original) The system of claim 14 wherein the processor includes a thermal connection surface.
19. (Cancelled)
20. (Currently Amended) The system of claim ~~19~~18 wherein the heat sink engages the thermal connection surface.
21. (Currently Amended) A method for mating a processor to a processor socket and mounting a heat sink in an information handling system comprising:
- providing a board member;
 - mounting a support member on the board member;
 - mounting a processor socket on the board member;
 - coupling a mass storage device and a system memory to the processor socket;
 - providing a processor seated in the processor socket;
 - mounting a frame member on the board member;
 - providing a plurality of connector members on the frame member;
 - providing a curved resilient load member with a first end connected to one of the connector members and a second end connected to another one of the connector members, whereby the connection of the second end deforms the curved load member into a substantially parallel engagement with the processor and urges the processor into the processor socket; and
 - providing a heat sink connected to the frame member adjacent to the load member; and
- the resilient load member having an opening formed therein permitting the processor to extend through the opening into contact with the heat sink, whereby the resilient load member urges the processor into contact with the socket without applying a force to the heat sink.